San Joaquin Valley Unified Air Pollution Control District
Supplemental Application Form

CHROMIUM ELECTROPLATING

This form must be accompanied by a completed Authority to Construct/Permit to Operate Application form

PERMIT TO BE ISSUED TO:

LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:

**PROCESS DESCRIPTION**

<table>
<thead>
<tr>
<th>Plating Type</th>
<th>Decorative</th>
<th>Hard (functional)</th>
<th>Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Type</td>
<td>Hexavalent</td>
<td>Trivalent</td>
<td>Chromic Acid</td>
</tr>
<tr>
<td>Operating Hour</td>
<td>___ hours/day ___ days/week ___ weeks/year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual Capacity</td>
<td>_______________ Amp-hour/year</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does your facility operate any associated operation such as grinding, buffing, polishing and/or abrasive blasting? (If the answer is Yes, then answer the following question)  [ ] Yes  [ ] No

Is there any type of air pollution control on the operation (e.g. baghouse, cyclone)?  [ ] Yes  [ ] No

(If Yes, please fill out the following)

Emission Control Equipment Description

| Manufacturer: |
| Model: |
| Motor Horsepower: | HP |
| Flow Rate: | cfm |

Estimated Dust collected: _________ lb/month _________ lb/week

Describe what types of material composition are being collected (Aluminum, Iron Steel, Chromium, etc.):

**EQUIPMENT DESCRIPTION**

<table>
<thead>
<tr>
<th>#</th>
<th>Description ¹</th>
<th>Dimensions (W x L x D)</th>
<th>Size (gal)</th>
<th>Voltage (Volt)</th>
<th>Maximum Rectifier capacity (Ampere)</th>
<th>Plating cycle (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*1</td>
<td>Chrome plating tank</td>
<td>4’ x 5’ x 4’</td>
<td>600</td>
<td>6</td>
<td>2,000 amp</td>
<td>20-30 sec</td>
</tr>
</tbody>
</table>

* Example

¹ If there are any plating operations other than chrome-plating (i.e. nickel, copper), all of the associated operations must be listed.
## CONTROL EQUIPMENT DESCRIPTION

**Control Techniques**  
*(Check all that apply)*  

**Chemical Fume Suppressant:**
- [ ] Wetting Agent (surface tension reducer)  
  - Manufacturer: ________________________________  
  - Name Brand: ________________________________  
  - Maximum Surface Tension: ____________________

- [ ] Foam Blanket

**Mechanical Fume Suppressant:**
- [ ] Polyballs

**Add-on Emissions Control**
- [ ] Packed bed scrubber  
  - [ ] HEPA Filters  
  - [ ] Composite Mesh Pad (CMP) system

- [ ] Other: ________________________________

## ADDITIONAL INFORMATION

1. Maximum Chrome-salt used: __________ Pounds per year

2. If chemical fume suppressant is used, include a Material Safety Data Sheet (MSDS) with this application.

3. Distance to nearest residence: _______ meters or _______ feet

4. Distance to nearest business: _______ meters or _______ feet

5. Stack Height (distance from ground to vent/stack): _______ meters or _______ feet  
   The direction of the vented exhaust: [ ] Vertical [ ] Horizontal

6. Date of initial operation of the chrome plating at this facility ____________________

7. Include dimensions of shop and plot plan of equipment located at the facility. Include all doors, gates, windows, vents, etc. opened during plating operation. (drawing, sketch, etc.)

8. Include diagram showing all the tanks in the plating line and the flow of parts through the line